CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/HM/W.No.15/CSR-08/132j/CEMENT/2016-17 Date: 02.09.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY		**Mr. Honnappa Murthy,** No.1271, 9th Main Road, West of Chord Road, 2nd Stage, Bangalore – 560 086.
*NAME OF THE WORK	:	Improvements and Construction of CC road, drain and RCC Culverts at Dasarahalli Old Village in Dasarahalli Ward No.15, BBMP, Bangalore.
REFERENCE		EE/DD/WO/44/2016-17 Dated: 06.07.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	31.08.2016
PERIOD OF TESTING	:	31.08.2016 to 02.09.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH C.
Quality Manager

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Job No.: CTCE/BBMP/HM/W.No.15/CSR-08/132j/SAND-Gradation/2016-17 : 02.09.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. Honnappa Murthy,**
No.1271, 9th Main Road, West of Chord Road, 2nd Stage, Bangalore – 560 086.

* **Name of Work** : Improvements and Construction of CC road, drain and RCC Culverts at Dasarahalli Old Village in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : EE/DD/WO/44/2016-17 Dated: 06.07.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 31.08.2016

Date of Testing : 02.09.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.60	90-100	90-100	90-100	95-100
2.36	77.00	60-95	75-100	85-100	95-100
1.18	54.70	30-70	55-90	75-100	90-100
600 Micron	28.90	15-34	35-59	60-79	80-100
300 Micron	14.00	5-20	8-30	12-40	15-50
150 Micron	7.80	0-10	0-10	0-10	0-15

*Information is furnished by the Customer/Representative.

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/HM/W.No.15/CSR-08/132j/AGG/GR/2016-17 : 02.09.2016

TEST' REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. Honnappa Murthy,** No.1271, 9th Main Road, West of Chord Road, 2nd Stage, Bangalore – 560 086.
* Name of Work	: Improvements and Construction of CC road, drain and RCC Culverts at Dasarahalli Old Village in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: EE/DD/WO/44/2016-17 Dated: 06.07.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 31.08.2016
Date of Testing	: 02.09.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.50	95-100	85-100
20	36.10	30-70	0-20
10	15.00	10-35	0-5
4.75	3.80	0-5	-

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* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/HM/W.No.15/STEEL/2016-17 07.09.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Honnappa Murthy,** No.1271, 9th Main Road, West of Chord Road, 2nd Stage, Bangalore – 560 086.
Name of the Work	:	Improvements and Construction of CC road, drain and RCC Culverts at Dasarahalli Old Village in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	:	EE/DD/WO/44/2016-17 Dated: 06.07.2016
Date of Test	:	07.09.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.10	O.K	O.K

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Job No.: CTCE/BBMP/HM/W.No.15/STEEL/2016-17 07.09.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Honnappa Murthy,** No.1271, 9th Main Road, West of Chord Road, 2nd Stage, Bangalore – 560 086.
Name of the Work	:	Improvements and Construction of CC road, drain and RCC Culverts at Dasarahalli Old Village in Dasarahalli Ward No.15, BBMP, Bangalore.
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Date of Test	:	07.09.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.35	O.K	O.K

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